

**EXPRESS MAIL LABEL NO.: EL746146607US**

**METHOD AND APPARATUS FOR END-TO-END CONTENT PUBLISHING SYSTEM  
USING XML WITH AN OBJECT DEPENDENCY GRAPH**

**ABSTRACT**

5

The system for end-to-end content publishing using XML with an object dependency graph is based on the following two design principles: First, separation of content and style: Information stored in the content management system is independent on how it is going to be presented. The presentation style is encapsulated elsewhere and can be used to customize the look and feel based on the end-user preferences as well as the delivery methods and devices. Second, reusability of information content: By encapsulating common information in fragments and subfragments and making these fragments insertable in other fragments, thereby avoid scattering and duplication of information. This enables a user to restrict the edit operations to a limited number of relevant fragments, to affect global changes. In addition, the present invention provides data consistency and data integrity in the content management.

10

15  
20  
25  
30  
35  
40  
45  
50  
55  
60  
65  
70  
75  
80  
85  
90  
95  
100  
105  
110  
115  
120  
125  
130  
135  
140  
145  
150  
155  
160  
165  
170  
175  
180  
185  
190  
195  
200

140-A00-005v2.wpd